

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Hydrangea arborescens*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
176	QUERCETIN	Root				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
112	ASCORBIC-ACID	Root				--
87	RUTIN	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
77	ZINC	Root				--
75	KAEMPFEROL	Root				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
65	MAGNESIUM	Root	567.0	1620.0	-0.5010009675178397	--
60	SELENIUM	Root	0.6	1.6	-0.24863436856020282	--
53	BETA-CAROTENE	Root				--
39	NIACIN	Root	44.0	125.0	2.1667485756558618	--
28	CALCIUM	Root	2261.0	6460.0	-0.10325408809694175	--
24	CHROMIUM	Root	0.9	2.5	-0.06165886683144246	--
22	UMBELLIFERONE	Shoot				Plouvier, V. 1987. Occurrence and distribution of syringoside, skimmin and similar coumarin glycosides and loganin in several botanical groups. C. R. Acad. Sci. Ser. III, 305(6): 183-186.
15	RIBOFLAVIN	Root				--
14	POTASSIUM	Root	9034.0	25810.0	0.73452011339059	--
14	MANGANESE	Root	7.0	18.7	-0.3225779619590914	--
6	IRON	Root	6.0	18.0	-0.41550297627696336	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	STARCH	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
5	ALUMINUM	Root	77.0	221.0	-0.1939011464249492	--
4	SILICON	Root	8.0	22.3	-0.24046542681013774	--
4	LOGANIN	Shoot				Plouvier, V. 1987. Occurrence and distribution of syringoside, skimmmin and similar coumarin glycosides and loganin in several botanical groups. C. R. Acad. Sci. Ser. III, 305(6): 183-186.
4	PHOSPHORUS	Root	2450.0	7000.0	0.6118650125540502	--
4	TIN	Root	4.0	11.0	-0.5576712458191766	--
2	COBALT	Root	1.3	3.8	-0.4627294331957213	--
1	SODIUM	Root				--
0	GUM	Root	31500.0	90000.0	-0.6755279625367215	--
0	FAT	Root	7000.0	20000.0	-0.09603792277020924	--
0	SAPONIN	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	HYDRANGIN	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	FIBER(DIETARY)	Root		380000.0	-0.20125931618604387	--
0	EO	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	FIBER(CRUDE)	Root		120000.0	0.2580364813561677	--
0	RESIN	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

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0	SKIMMIN	Shoot				Plouvier, V. 1987. Occurrence and distribution of syringoside, skimmin and similar coumarin glycosides and loganin in several botanical groups. C. R. Acad. Sci. Ser. III, 305(6): 183-186.
0	NEOHYDRANGIN	Shoot				Plouvier, V. 1987. Occurrence and distribution of syringoside, skimmin and similar coumarin glycosides and loganin in several botanical groups. C. R. Acad. Sci. Ser. III, 305(6): 183-186.
0	PROTEIN	Root	56700.0	162000.0	0.4894586911777774	--
0	THIAMINE	Root				--
0	ASH	Root	18900.0	54000.0	-0.3871778963297542	--
0	WATER	Root		650000.0	-0.7804888095818918	--
0	SUGARS	Root	21000.0	60000.0	-0.424742309250878	--